



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/695,228	10/25/2000	Paul D. Marko	40554	2889

7590

11/30/2004

Stacey J Longanecker  
Roylance Abrams Berdo & Goodman LLP  
1300 19th Street NW  
Suite 600  
Washington, DC 20036

EXAMINER
----------

NALEVANKO, CHRISTOPHER R

ART UNIT	PAPER NUMBER
----------	--------------

2611

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/695,228

Applicant(s)

MARKO ET AL.

Examiner

Christopher R Nalevanko

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 October 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 28 Feb. 2001.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1, 3-5, 9, 12, 17, and 18 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Foster et al (6,801,536).

Regarding Claim 1, Foster shows a receiver in a digital broadcast system comprising a memory device for storing content transmitted in a broadcast signal (fig. 1 item 150, col. 4 lines 10-20, HDD), the content comprising data files, each file being partitioned into segments that are in the broadcast signal (col. 3 lines 4-15, col. 4 lines 60-67, col. 5 lines 43-67, packets), the signal being provided with at least one header comprising information indicating the number of segments that constitute one of the files, and information identifying the segments (col. 5 lines 40-67, col. 6 lines 38-64, type of data and block size). Foster further shows a reception device for receiving the broadcast signal and processing the signal to obtain the content including segments corresponding to the data files (see fig. 1), and a processing device connected to the memory device and reception device and being programmable to allocate at least one section in the memory for storing the data file (fig. 1, host processor and memory controller, col. 6 lines 50-65, col. 9 lines 1-15, FAT on storage medium), storing the segments of the data file in the

Art Unit: 2611

allocated section (fig. 1, host processor and memory controller, col. 6 lines 50-65, col. 9 lines 1-15, FAT on storage medium) and to monitor the progress of the allocated section (col. 7 lines 1-47, using interrupts and time stamps to fill buffers that send data to the HDD).

Regarding Claim 3, Foster shows that the header indicates the size of the data that needs to be stored (col. 3 lines 5-15, col. 4 lines 38-55, col. 5 lines 40-67, col. 6 lines 38-64, type of data and block size). This would inherently be the allocation size necessary to store the data in memory.

Regarding Claim 4, Foster shows that each segment has a header that identifies the total number of segments (col. 7 lines 12-18, unitary header provided for the total data block size) and an identification code (STC) (col. 8 lines 60-67, col. 9 lines 1-13, using look up table to identify the STC in storage location for playback). The STC code in the header indicates the order in the file (col. 7 lines 5-35, col. 9 lines 1-23, STC in header).

Regarding Claim 5, Foster shows that the header indicates the size of the data that needs to be stored (col. 3 lines 5-15, col. 4 lines 38-55, col. 5 lines 40-67, col. 6 lines 38-64, col. 7 lines 12-18, type of data and block size, unitary header provides for the block size). Furthermore, a block size buffer, that uses the total block size, is used to fill the memory (col. 7 lines 1-18, block size buffer and total data block size in header). This would inherently be the allocation size necessary to store the data in memory.

Regarding Claim 9, Foster shows that the header file contains identification codes for the segments that indicate the order the segments are to appear in playback (col. 8

Art Unit: 2611

lines 21-67, col. 9 lines 1-23, STC used for synchronization of playback), and the ability to determine if the segments have been stored (col. 8 lines 15-35, using a buffer that continually adds data until full, then stores the data together, effectively determining if and when data should be stored).

Regarding Claim 12, Foster shows a storage for storing a first portion of complete data files (col. 4 lines 10-25, HDD) and a storage for second portions that are being received, or a buffer (col. 6 lines 38-65, col. 3 lines 1-15, storing data in buffer prior to storage on hard disk).

Regarding Claim 17, Foster shows a method of implementing a file transfer from a broadcaster to a receiver in a digital system comprising receiving a broadcast signal having content comprising data files, each file being partitioned into segments that are in the broadcast signal (col. 3 lines 4-15, col. 4 lines 60-67, col. 5 lines 43-67, packets), the signal being provided with at least one header comprising information indicating the number of segments that constitute one of the files, and information identifying the segments (col. 5 lines 40-67, col. 6 lines 38-64, type of data and block size). Foster further shows that after the buffer is full, the data is selected for storing on the hard disk (col. 7 lines 1-18, fixed size total data block is stored), storing the segments of the data file in the allocated section (fig. 1, host processor and memory controller, col. 6 lines 50-65, col. 9 lines 1-15, FAT on storage medium), allocating at least one section in the memory for storing the data file (fig. 1, host processor and memory controller, col. 6 lines 50-65, col. 9 lines 1-15, FAT on storage medium), analyzing the information in the header to identify segments (col. 5 lines 44-67, analyzing header), and storing segments

Art Unit: 2611

in the portion of the memory corresponding to the file (col. 6 lines 38-65, storing data according to STC so data will be stored in correct sequence).

Regarding Claim 18, Foster shows monitoring what data files have not been received and stored and stores them accordingly ability to determine if the segments have been stored (col. 8 lines 15-35, using a buffer that continually adds data until full, then stores the data together, effectively determining if and when data should be stored). By using this buffer, Foster is able to ensure data is fully received before storing the data onto the storage device.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 2, 10, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foster et al (6,801,536) in further view of Rieger, III (5,732,324).

Regarding Claim 2, Foster shows an output device connected to the processing device (fig. 1 item 190). Foster fails to show generating an alert message when the segments of the data file have been stored in memory. Rieger shows alerting the user on an output device when data segments have been stored in memory (col. 5 lines 40-51). It would have been obvious to one of ordinary skill in the art at the time the invention was

Art Unit: 2611

made to modify Foster with the alert message of Rieger show that a user would be aware when data had been downloaded to the receiver.

Regarding Claim 10, Foster fails to show that the segments are rebroadcast and the system determines what data has been stored, subsequently discarding repeated data and saving new data. Reiger shows that the segments are rebroadcast and the system determines what data has been stored, subsequently discarding repeated data and saving new data (col. 4 lines 25-43, 55-65, using identification information to determine repeated signals and preventing storage). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to ignore repeated signals as in Rieger so that the user would not store more than one copy of the data.

Regarding Claim 19, Foster fails to show that the segments are rebroadcast and the system determines what data has been stored, subsequently discarding repeated data and saving new data. Reiger shows that the segments are rebroadcast and the system determines what data has been stored, subsequently discarding repeated data and saving new data (col. 4 lines 25-43, 55-65, using identification information to determine repeated signals and preventing storage). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to ignore repeated signals as in Rieger so that the user would not store more than one copy of the data.

3. Claims 6, 7, 13-15, and 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foster et al (6,801,536) in further view of Morrison (5,815,671).

Regarding Claim 6, Foster fails to show a data field comprising an expiration data for the data file. Morrison shows message data codes that determine different aspects of the sent data (col. 6 lines 14-67, col. 7 lines 1-65). Included in this data is time period data, which controls the receiving system to stop displaying certain data after a certain time period, effectively expiring the data (col. 7 lines 49-65, time period). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to include auxiliary data that could express expiration time as in Morrison so the system would have more parameters to further control the display of data.

Regarding Claim 7, Foster fails to show a message identification code. Morrison shows that each message is assigned a message identification code to indicate which of a plurality of receivers are to receive the message (col. 6 lines 14-67, col. 7 lines 1-65) and the processing device being able to store a message with a certain code and discard other messages with different codes (col. 7 lines 15-46, using certain data and discarding others based on user preferences). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to include message code data that could express more detailed data about a broadcast as in Morrison so the system would have more parameters to further control the display of data.

Regarding Claim 13, Foster shows a method of transmitting content files comprising partitioning the files into segments (fig. 2 data blocks), assigning the data files with identification codes for the segments that indicate the order the segments are to appear in playback (col. 8 lines 21-67, col. 9 lines 1-23, STC used for synchronization of



playback, using look up table to determine the STC of data in memory), including the segments in the broadcast signal (col. 3 lines 4-15, col. 4 lines 60-67, col. 5 lines 43-67, packets), and providing each segment with a header that identifies the total number of segments and an identification code (STC). The STC code in the header indicates the order in the file (col. 7 lines 5-35, col. 9 lines 1-23, STC in header, using look up table to determine the STC of data in memory). Foster fails to show a message identification code. Morrison shows that each message is assigned a message identification code to indicate which of a plurality of receivers are to receive the message (col. 6 lines 14-67, col. 7 lines 1-65) and the processing device being able to store a message with a certain code and discard other messages with different codes (col. 7 lines 15-46, using certain data and discarding others based on user preferences). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to include message code data that could express more detailed data about a broadcast as in Morrison so the system would have more parameters to further control the display of data.

Regarding Claim 14, Morrison further shows rebroadcasting data segments (col. 6 lines 25-40, repeated transmission).

Regarding Claim 15, Morrison shows message data codes that determine different aspects of the sent data (col. 6 lines 14-67, col. 7 lines 1-65). Included in this data is time period data, which controls the receiving system to stop displaying certain data after a certain time period, effectively expiring the data (col. 7 lines 49-65, time period).

Regarding Claim 20, Foster fails to show a rebroadcast schedule. Morrison shows that rebroadcasts of data files are scheduled throughout a day (col. 6 lines 14-40).

Furthermore, Morrison shows that the system operates the receiver to automatically tune to the rebroadcast signal, extracts elements which have not been stored, and storing these segments (col. 6 lines 14-40). Morrison shows a system that rebroadcasts data several times a day. If the system has not stored a rebroadcast file, this gives the receiver the opportunity to store the file. Furthermore, although not specifically stated, it is nonetheless inherent that a storage device, upon receiving any data, is always a "percentage full". It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to rebroadcast and store certain files as in Morrison so that the system would ensure the receiver downloaded necessary files.

Regarding Claim 21, Foster fails to show a message identification code. Morrison shows that each message is assigned a message identification code to indicate which of a plurality of receivers are to receive the message (col. 6 lines 14-67, col. 7 lines 1-65) and the processing device being able to store a message with a certain code and discard other messages with different codes (col. 7 lines 15-46, using certain data and discarding others based on user preferences). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to include message code data that could express more detailed data about a broadcast as in Morrison so the system would have more parameters to further control the display of data.

Art Unit: 2611

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Foster et al (6,801,536) in further view of Rieger, III (5,732,324) and Morrison (5,815,671).

Regarding Claim 11, Foster and Rieger fail to show automatically operating the receiver at a selected time of day to receive and store segments that have not been stored yet. Morrison shows automatically operating the receiver at a selected time of day to receive and store segments that have not been stored yet (col. 6 lines 25-42, transmitted at a number of convenient times throughout 24 hour day, as well as repeated transmission). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster with the ability to repeatedly send data at different times as in Morrison so that the user was ensured the data was received and that the receiving would not interrupt operation of regular playback.

5. Claim 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foster et al (6,801,536) in further view of Morrison (5,815,671) and Wolzien (2003/0212996).

Regarding Claim 8, Foster and Morrison fail to show that the code can correspond to a model of a car. Wolzien shows code identification information that identifies a type of car the user is driving (page 7-8 section 58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Foster and Morrison with the ability to use car type data as in Wolzien so that information about a particular vehicle could be relayed to the user.

Regarding Claim 16, all of the claimed limitations have been discussed with regards to Claim 8.

### ***Conclusion***

Art Unit: 2611

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shimazu U.S. Patent No. 6,778,808 discloses a route-adaptive on demand radio communication system for a driver, communication method using the same, and recording medium storing a program for executing the method.

Larson, Jr. U.S. Patent No. 5,539,635 discloses a radio station program identifier and distribution system.

Janky U.S. Patent No. 5,914,941 discloses a portable information storage/playback apparatus having a data interface.

Sirbu et al U.S. Patent No. 5,809,144 discloses a method and apparatus for purchasing and delivering digital goods over a network.

Naim U.S. Patent No. 6,694,200 discloses a hard disk based portable device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R Nalevanko whose telephone number is 703-305-8093. The examiner can normally be reached on M-F 8-5.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on 703-305-4755. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Nalevanko  
AU 2611  
703-305-8093

cn



CHRIS GRANT  
PRIMARY EXAMINER